BRUHAT BANGALORE MAHANAGARA PALIKE
BYATARAYANPURA DIVISION

Name of Work : Package 3, includes 3 works of 100.00 Lakhs

1. Improvements to Road and Drains at Ashwath nagar cross roads in Ward No.06 (Thanisandra), Byatarayanapura Sub Division.
2. Improvements to Road and Drains at Fathima Layout cross roads in Ward No.06 (Thanisandra), Byatarayanapura Sub Division.
3. Improvements to Road and Drains at Saraipalya Vidyasagar cross roads in Ward No.06 (Thanisandra), Byatarayanapura Sub Division.

TOTAL ABSTRACT

FIRST & PART BILL

TEJUS CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No.58 MIG, 6th Cross, 3rd Main
1st Stage, Basaveshwaranagar
Bangalore-560079
☎ 080 - 23287532
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BRUHATH BANGALORE MAHANAGARA PALIKE

Bytarayanapura Division

of Work (as per sanctioned estimate): Package 3, includes 3 works of 100.00 Lakhs

mprovements to Road and Drains at Ashwath nagar cross roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division

mprovements to Road and Drains at Fathima Layout cross roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division

mprovements to Road and Drains at Saraipalya Vidyasagar cross roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division

ode :-

of Agency :- Benaka Developers & Project Pvt.Ltd.

o :1st & Part Bill

	Description of Item of Work	Unit	Qty	Rate	Amount	Remarks
	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 (P.No.5, I.No.2.3, of PW, P&IWTD SR 2016-	cum				
	Ashwathnagar		0.00			
	Fathima Layout		0.00			
	Saraipalya Vidyasagar		0.00			
	Present Qty		**0.00**			
	Total		0.00			
	BOQ qty		130.00			
	Qty for payment		**0.00**	**216.07**	**0.00**	
	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications.(P.No.4, I.No.2.11 of PW, P&IWTD SR 2016-17)	cum				
a	Ashwathnagar		0.00			
b	Fathima Layout		0.00			
c	Saraipalya Vidyasagar		0.00			
	Present Qty		**0.00**			
	Total		0.00			
	BOQ qty		97.50			
	Qty for payment		**0.00**	**86.88**	**0.00**	
3	Providing and fixing PVC pipes 10.00 kg/sq.cm 200mm outer dia.(Sl No. 3006 material component PWTD SR 2016-17)	L				
a	Ashwathnagar		0.00			
b	Fathima Layout		0.00			
c	Saraipalya Vidyasagar		0.00			
	Present Qty		**0.00**			

Consultant

Contractor

Assistant Engineer

Assistant Executive Engineer

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	Total		0.00			
	BOQ qty		325.00			
	Qty for payment		0.00	1943.46	0.00	
	Gate valve 25mm nominal bore-gun metal (Sl No. 161 material component PWTD SR 2016-17)	Nos				
	Ashwathnagar		0.00			
	Fathima Layout		0.00			
	Saraipalya Vidyasagar		0.00			
	Present Qty		0.00			
	Total		0.00			
	BOQ qty		7.00			
	Qty for payment		0.00	525.88	0.00	
5	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)	Cum				
a	Ashwathnagar		116.55			
b	Fathima Layout		214.00			
c	Saraipalya Vidyasagar		172.23			
	Present Qty		502.78			
	Total		502.78			
	BOQ qty		844.62			
	Qty for payment		502.78	201.50	1,01,255.00	
6	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.25, I.No.5.33 of PW, P&IWTD SR 2016-17)	Sqm				
a	Ashwathnagar		282.39			
b	Fathima Layout		0.00			
c	Saraipalya Vidyasagar		123.30			
	Present Qty		405.69			
	Total		405.69			
	BOQ qty		589.28			
	Qty for payment		405.69	86.88	35,246.00	
7	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing etc., complete.(P.No.25, I.No.5.31.1 of PW, P&IWTD SR 2016-17)	Sqm				
a	Ashwathnagar		0.00			
b	Fathima Layout		0.00			
c	Saraipalya Vidyasagar		0.00			
	Present Qty		0.00			
	Total		0.00			
	BOQ qty		321.98			
	Qty for payment		0.00	717.94	0.00	

Consultant

Assistant Engineer

	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No. 12/I.No. 4.2 of CSR 2016-17)	cum				
	Ashwathnagar		0.00			
	Fathima Layout		74.25			
	Saraipalya Vidyasagar		17.49			
	Present Qty		91.74			
	Total		91.74			
	BOQ qty		108.57		52721.00	
	Qty for payment		91.74	5768.64	5,29,202.00	
	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaltons. Specification No. KBS 4.6.2 (P.No.15 /I.No. 4.28 of CSR 2016-17)	Sqm				
	Ashwathnagar		0.00			
	Fathima Layout		44.50			
	Saraipalya Vidyasagar		31.80			
	Present Qty		76.30			
	Total		76.30			
	BOQ qty		245.40			
	Qty for payment		76.30	264.08	20,149.00	
0	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (P.No.15 /I.No. 4.31 of CSR 2016-17)	Sqm				
a	Ashwathnagar		0.00			
b	Fathima Layout		534.00			
c	Saraipalya Vidyasagar		254.40			
	Present Qty		788.40			
	Total		788.40			
	BOQ qty		1841.60			
	Qty for payment		788.40	334.96	2,64,082.00	
11	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) M 20 for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, for raft foundation column footing , main and secondary beams (P.No.18 /I.No. 4.48 of CSR 2016-17)	cum				
a	Ashwathnagar		0.00			

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	Fathima Layout		44.55			
	Saraipalya Vidyasagar		33.39			
	Present Qty		77.94			
	Total		77.94			
	BOQ qty		226.59		5288 29.00	
	Qty for payment		**77.94**	**6720.93**	**5,23,823.00**	
	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500 (P.No.17 /I.No. 4.46.2 of CSR 2016-17)	Tonne				
a	Ashwathnagar		0.00			
b	Fathima Layout		1.98			
c	Saraipalya Vidyasagar		1.62			
	Present Qty		3.61	3.60		
	Total		3.61	3.60		
	BOQ qty		11.84		28613.00	
	Qty for payment		**3.61**	**79475.96**	**2,86,517.00**	
13	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)	Sqm				
a	Ashwathnagar		0.00			
b	Fathima Layout		18.72			
c	Saraipalya Vidyasagar		0.00			
	Present Qty		18.72			
	Total		18.72			
	BOQ qty		75.60			
	Qty for payment		**18.72**	**5734.38**	**1,07,348.00**	
14	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143 /I.No. 19.14 of CSR 2016-	cum				
a	Ashwathnagar		579.87			
b	Fathima Layout		0.00			
c	Saraipalya Vidyasagar		342.22			
	Present Qty		**922.09**			
	Total		922.09			
	BOQ qty		665.80			

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Total Abstract

	Qty Reserved for Approval in 1st RA		256.29			
	Qty for payment		**665.80**	**160.44**	**1,06,821.00**	
	M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PW,P&IWTD SR 2016-17)	cum				
	Ashwathnagar		483.23			
	Fathima Layout		0.00			
	Saraipalya Vidyasagar		**285.18**			
	Present Qty		**768.41**			
	Total		768.41			
	BOQ qty		741.55			
	Qty Reserved for Approval in 1st RA		26.86			
	Qty for payment		**741.55**	**1906.87**	**14,14,039.00**	
6	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6 of PW,P&IWTD SR 2016-17)	Sqm				
a	Ashwathnagar		1932.91			
b	Fathima Layout		0.00			
c	Saraipalya Vidyasagar		1140.73			
	Present Qty		3073.64			
	Total		3073.64			
	BOQ qty		3114.00			
	Qty for payment		**3073.64**	**32.01**	**98,387.00**	
17	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.161, I.No.21.2 of PW,P&IWTD SR 2016-17)	Sqm				
a	Ashwathnagar		325.62			
b	Fathima Layout		0.00			
c	Saraipalya Vidyasagar		0.00			
	Present Qty		**325.62**			
	Total		325.62			
	BOQ qty		1494.00			
	Qty for payment		**325.62**	**3.43**	**1,117.00**	

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Contractor

Assistant Engineer

Assistant Executive Engineer

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	KSRRB M500-7 : Providing and applying tack coat using (100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7 of PW,P&IWTD SR of	Sqm				
	Ashwathnagar		2258.53			
	Fathima Layout		0.00			
	Saraipalya Vidyasagar		1140.73			
	Present Qty		3399.25			
	Total		3399.25			
	BOQ qty		4608.00			
	Qty for payment		**3399.25**	**13.72**	**46,638.00**	
	KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6 in PW,P&IWTD S.R 2016-17)	cum				
	Ashwathnagar		90.34			
	Fathima Layout		0.00			
	Saraipalya Vidyasagar		45.63			
	Present Qty		135.97			
	Total		135.97			
	BOQ qty		174.82		11,75,146.00	
	Qty for payment		**135.97**	**8642.67**	**11,75,146.00**	
20	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.(P.No.185, I.No.24.15 of PW,P&IWTD SR 2016-17)	Sqm				
a	Ashwathnagar		84.10			
b	Fathima Layout		0.00			
c	Saraipalya Vidyasagar		39.70			
	Present Qty		123.80			
	Total		123.80			
	BOQ qty		173.40			
	Qty for payment		**123.80**	**585.32**	**72,463.00**	

Consultant

Contractor

Assistant Engineer

Assistant Executive Engineer

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	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 .(P.No.23, I.No.5.6 of PW,P&IWTD SR 2016-17)	cum				
	Ashwathnagar		0.00			
	Fathima Layout		2.92			
	Saraipalya Vidyasagar		0.00			
	Present Qty		2.92			
	Total		2.92			
	BOQ qty		5.76		13977.00	
	Qty for payment		**2.92**	**4786.62**	**13,958.00**	
2	KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. .(P.No.113, I.No.15.1 of PW,P&IWTD SR 2016-17)	Sqm				
	Ashwathnagar		0.00			
	Fathima Layout		0.00			
	Saraipalya Vidyasagar		0.00			
	Present Qty		0.00			
	Total		0.00			
	BOQ qty		9.60			
	Qty for payment		**0.00**	**110.89**	**0.00**	
3	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No. 4.6 of PWD SR 2016-17)	cum				
a	Ashwathnagar		0.00			
b	Fathima Layout		1.19			
c	Saraipalya Vidyasagar		0.00			
	Present Qty		1.19			
	Total		1.19			
	BOQ qty		0.72			
	Qty Reserved for Approval		0.47			
	Qty for payment		**0.72**	**6220.21**	**4,479.00**	

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Contractor

Assistant Engineer

Assistant Executive Engineer

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	Providing and laying reinforced cement concrete pipe NP3 culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications. Specifications. No. KSRB 1000, 2300 MORT Specification No.1000 / 2300 - - 300mm dia. (P.No.253, I.No.34.7.3 of PWD SR 2016-17)	L				
	Ashwathnagar					
	Fathima Layout		0.00			
	Saraipalya Vidyasagar		0.00			
	Present Qty		0.00			
	Total		0.00			
	BOQ qty		0.00			
	Qty for payment		30.00			
			0.00	**1266.68**	**0.00**	
	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)	Sqm				
	Ashwathnagar		0.00			
	Fathima Layout		200.25			
	Saraipalya Vidyasagar		0.00			
	Present Qty		200.25			
	Total		200.25			
	BOQ qty		168.00			
	Qty Reserved for Approval		32.25			
	Qty for payment		**168.00**	**1959.63**	**3,29,218.00**	
6	KSRRB M200-13.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. II. By Mechanical Means. A. Cement Concrete Grade M-15 &M-20. MORTH	cum				
a	Ashwathnagar		0.00			
b	Fathima Layout		0.00			
c	Saraipalya Vidyasagar		0.00			
	Present Qty		0.00			
	Total		0.00			
	BOQ qty		5.76			
	Qty for payment		**0.00**	**502.26**	**0.00**	

Consultant

Contractor

Assistant Engineer

Executive Engineer

Cement concrete pavement.Construction of un-reinforced in cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at [illegible] per cum coarse aggregate @ 0.69cum and fine	cum				
Ashwathnagar		0.00			
Fathima Layout		47.44			
Saraipalya Vidyasagar		0.00			
Present Qty		47.44			
Total		47.44			
BOQ qty		81.15		3,18,136.00	
Qty for payment		**47.44**	**6706.07**	**3,18,107.00**	
Vacuum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.(P.No.177, LNo.22.7 of PW, P&IWTD SR 2016-17)	Sqm				
Ashwathnagar		0.00			
Fathima Layout		374.59			
Saraipalya Vidyasagar		0.00			
Present Qty		374.59			
Total		374.59			
BOQ qty		811.50			
Qty for payment		**374.59**	**102.89**	**38,541.00**	
			TOTAL	**54,86,636.00**	

Certificate:

1. Certified that the contractor has done the work satisfactorly
2. Certified that the debris has been removed from the site
3. Certified that the No dues from the contractor
4. Certified that the above item of the work were not claimed in any other bill

Consultant

Contractor

Assistant Engineer

Assistant Executive Engineer

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